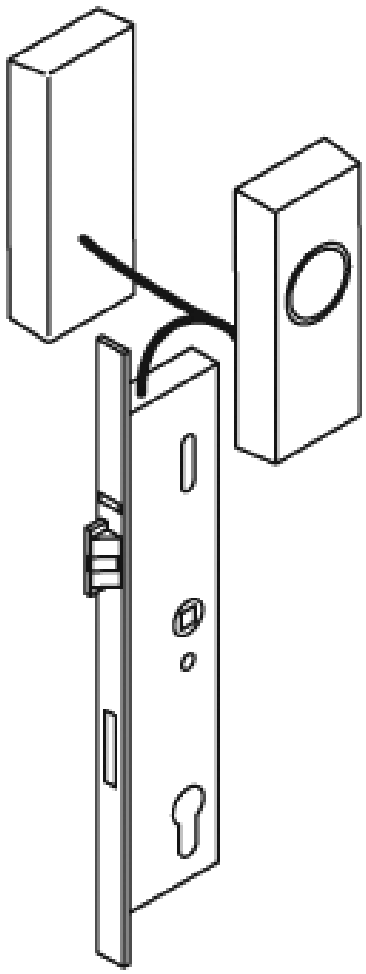
Operating instructions

Framed Door System
ES6610, ES7610



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1 Introduction

About these instructions

These instructions contain important notes and information on operation of the ES6610and ES7610 Framed Door systems.

- Read through the instructions carefully and attentively.
- Keep the instructions in a safe place and pass them on to each subsequent user of the Framed Door systems.

Explanation of the Symbols and Signal Words Used

⚠ WARNING	Indicates risks which could result in fatal or severe personal injuries.
⚠ CAUTION	Indicates risks which could result in fatal or severe personal injuries.
CAUTION	Indicates risks which could result in damage to property.
Note	Denotes information, notes and tips on optimum use of the instructions and the product.

Target group

These instructions are directed at competent personnel entrusted with the servicing, maintenance and disposal of trouble-free operation of the Framed Door system and who has successfully completed suitable vocational training for these activities or has had the necessary appropriate experience.

OPERTIS Support

If you have any questions extending beyond the information provided in these instructions, please contact

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Up-to-date status of the information

All details on the product, images, dimensions and models correspond to the status at the time the product is delivered. We reserve the right to make changes due to technical progress and the resulting continuous improvement process to which our products are subjected.

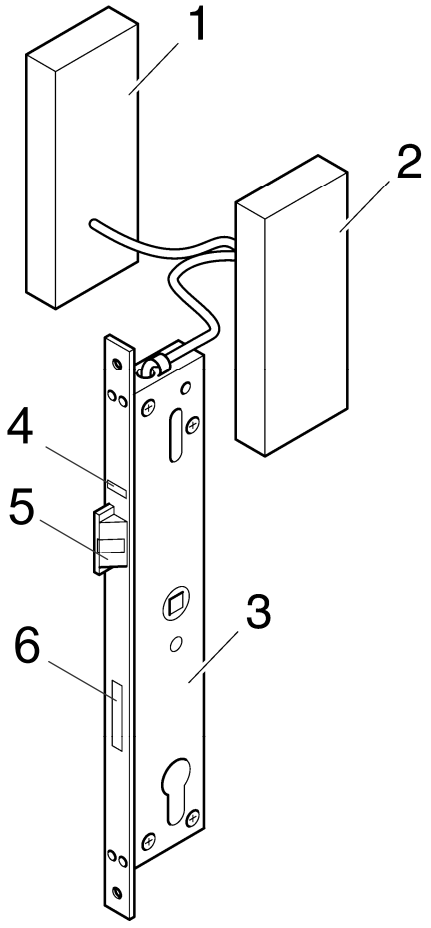
The current version of these instructions and further information is also available on our internet site www.opertis.de.

Dated 05/2012

2 Product Description

Component parts

The following drawing shows the main component parts of the Framed Door system:



1	Read-out unit
2	Evaluator unit
3	Electro-mechanical lock
4	Control latch
5	Latch
6	Dead bolt

Functional principle

The OPERTIS eLOCK lock system ensures continuous public and commercial building fitout. Special fitting solutions are available for different door types.

The Framed Door system includes a self-locking lock which automatically locks when the door is closed. There is no locking in the conventional sense by means of knobs or keys; mechanical locking is no longer necessary.

In the Framed Door system the inner lever handle is always coupled in. The integrated anti-panic function pulls back the latch and bolt when the inner lever handle is pressed; the doors can always be opened from the inside.

In the Framed Door system the outer lever handle has no function in the decoupled state: It can be pressed but does not have any connection with the lock latch and bolt. In this state the door cannot be opened using the outer lever handle. Access organisation is realised by short-term coupling-in of the otherwise idle (disengaged) outer lever handle after holding an identifier in front of the antenna. If the coupled-in outer handle lever is pressed the latch and bolt are pulled back.

There is no unlocking in the conventional sense by means of knobs or keys; mechanical unlocking is no longer necessary.

Management and programming, among other things the issue of access authorisations, takes place using the eLOCK Center management software. Optionally, programming with eLOCK LernLösch is also possible via three programming keys without additional software.

Passive identifiers without their own power supply are available for authorisation at the fittings in different forms such as key fobs, cards or customer-specific forms.

Detailed information

Further information on the product is given in Section 8 "Product Specifications".

3 Intended Use

Area of use

The Framed Door system has been designed for use in narrow framed doors at internal and external doors. It is not permitted to use it outdoors, e.g. in fencing.

Condition of the product

Framed Door systems may only be used if they are in a technically perfect condition.

Independent modifications and changes to the product are not allowed.

Ambient conditions

Use in a particularly polluted environment, e.g. in aggressive gases, high humidity, in extreme temperatures or in a very dusty environment, is not allowed. If you have any questions, please contact OPERTIS Support.

Power supply

All battery operated fittings activate acoustic and/or optical battery flat warnings and controlled failed locking if the battery output in the fitting is fading. The battery should then be replaced without delay.

Residual risk

If used properly and if the maintenance instructions are followed, this product will support your property security.

However, the following residual risks cannot be excluded:

- In the event of failure of the electronics there is a risk of locking out. In this case the door can only be opened from the outside with mechanical aids. In this case, please contact OPERTIS Support.
- If the battery flat warning is repeatedly ignored the Framed Door system stops all activities (Active Power Off). The door cannot be opened from the outside. This state is retained in until the battery has been replaced and then an external power supply has been provided.
- In Active Power Off, i.e. if the battery is completely flat or missing, the Framed Door system stops all activities. The door can then only be opened from the outside with the external power supply (EPS) ES6781 for ES5000 plus systems or the ES7781 for eLOCK and eLOCK LernLösch systems.

4 Safety Instructions

The following safety instructions must be read and followed before use! OPERTIS does not accept any liability whatsoever for personal losses or injuries or damage to property caused by failure to note and follow these instructions!

WARNING

Risk of personal injuries

The Framed Door system has been tested and approved for use in framed fire doors and framed smoke control doors. If used in a fire door or smoke control door it must also be listed in the "monitoring design features" (list of approved products) of the relevant profile manufacturer.

WARNING

Risk of personal injuries

An approved framed door version with anti-panic function must be installed in the escape direction for doors in escape routes.

WARNING

Risk of personal injuries

If the Framed Door system is used in doors in escape routes an approved lock model (lever handle side with panic function in the direction of escape) must be installed. Otherwise the door does not have the anti-panic function.

WARNING

Danger of personal injury from the battery

Any improper contact with the battery can lead to damage to the health. The following instructions must be noted:

- Only use batteries supplied or approved by OPERTIS.
- Do not open, solder or weld the batteries.
- Do not throw the batteries into fire.
- Do not recharge the batteries.
- Remove empty batteries immediately from the fitting.
- Store batteries out of the reach of children.
- Do not touch leaking batteries without appropriate protection. Avoid contact with the eyes or mouth.

CAUTION

Danger of material damage

Malfunctions can occur if unapproved battery types are used. The fitting does not signal any battery warnings and does not switch to the secured end state Active Power Off.

Only use battery types approved by OPERTIS.

CAUTION

Risk of locking in or out

The door cannot be opened without a fully functional fitting, if the latch drops into the lock.

Leave the door open during installation and while changing the battery or ensure that the door can be opened at any time without using the fitting.

CAUTION

Unauthorised access

After opening the door, let go of the outer lever handle.

Otherwise the electronic lock of the framed door system cannot uncouple and lock the door if the lever handle is kept pressed for longer than 2 min. after the opening time (default 20 sec.). The framed door system then automatically tries to uncouple the outer lever handle at defined intervals.

CAUTION

Unauthorised access

The inner lever handle of the Framed Door system is coupled as an anti-panic lock. This enables the door to be opened at any time using the inner lever handle. You should note this, above all when using the fitting in publicly accessible doors and doors through which the inner lever handle can be easily accessed from the outside.

CAUTION

Unauthorised access

When delivered the Framed Door systems are in construction site mode. Access is possible with any OPERTIS identifier, even if they are not programmed.

Program the authorisations immediately after installation to prevent unauthorised access; see eLOCK system documentation software. Check time and if necessary reset.

5 Use and Operation

Programming fittings and identifiers

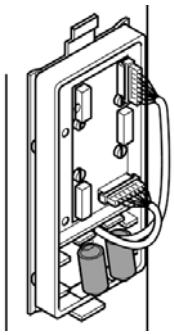
Fittings and identifiers are programmed using the eLOCK Center management centre or the eLOCK LernLösch system. Detailed information on this is given in the eLOCK system documentation software.

Changing the batteries

Note

Note the battery type information in Section "Technical data".

Proceed as follows:

Step	Activity	Figure
1	Undo countersunk screw on the underside of the evaluator unit cover,	
2	Remove the cover of the evaluator unit.	
3	Remove batteries.	
4	Insert the new batteries in the battery compartment ensuring the battery polarity is correct.	
5	Replace the cover and screw onto the underside.	
6	Check date and time and if necessary reset, see eLOCK software system documentation.	

Visual signals

The visual signals of the fitting depend on the programming. The programmed fittings in the LernLösch system and the fittings programmed using eLOCK Center have a different signalling concept.

Note

The complete visual and acoustic signals are included in the eLOCK system documentation "Signalling Concept" section.

In certain system states and events the Framed Door system emits visual signals:

Visual signal	Meaning
2x short blue-blue	Programming mode on.
2x short green-green	Fitting connection by authorised identifier.
2x short red-green	Fitting connection in construction site mode or permanent release mode, see eLOCK system documentation "Fitting Modes" section.
2x short red-red	No fitting connection, identifier not authorised.
5x long blue	Battery flat, Warning level 1 with controlled incorrect locking operations.
Repeated short red	Fitting has been activated and is searching for identifiers.
2x short red-red 4 x yellow	System error! Dismantle fitting, contact OPERTIS Support!

6 Servicing, Cleaning and Maintenance

The servicing, cleaning and maintenance may be carried out by qualified personnel only.

Warranty cover is excluded for damage caused by improper handling.

Intervals

Activity	Interval
Cleaning and maintenance	3 months
Servicing	1 year

Cleaning and maintenance

CAUTION

Damage to property due to incorrect cleaning

Incorrect cleaning can cause the surfaces to be attacked and damaged:

- Maintain the Framed Door system from the outside only (do not remove cover caps!).
- Do not use any alkali or acidic cleaning agents or cleaning agents containing chlorine.
- Do not use cleaning agents with scouring additives.
- Do not use scouring instruments, e.g. brushes.
- Do not allow oils and greases to get inside the electro-mechanical lock.

Proceed as follows:

Step	Activity	Figure
1	Wipe surfaces with a damp cloth.	
2	Lightly grease the lock latch on the slanted side.	

Servicing

CAUTION

Risk of locking in or out

The door cannot be opened without a fully functional fitting, if the latch drops into the lock.

Perform functional tests with the door open.

The following functional tests must be performed once a year:

Step	Activity	Result
1	Check for secure fit of the lock, the installed fittings and the screws.	All components of the Framed Door system are securely installed. The control latch, the latch and the dead bolt move smoothly and easily.
2	Press the outer lever handle.	The outer lever handle is idle (disengaged). The latch is not drawn in.
3	Hold authorised OPERTIS identifier in front of the read-out unit, then press the outer door lever.	The latch is drawn in and automatically returns to the starting position after pulling back.
4	Press inner lever handle.	
5	Check self-locking: Press in latch and control latch, then keep the control latch pressed and let go of the latch.	The dead lock must spring out. The latch and the bolt can no longer be pushed in.
6	Check the panic function: Press the inner lever handle with the lock locked.	The dead bolt and latch are drawn in by the action.
7	Check the panic function: Press the coupled outer lever handle with the lock locked.	
8	**CAUTION** **Risk of being locked out** When the door is closed from the outside, an authorised identifier must be available to enable the door to then be re-opened! Close the door from the inside.	The dead lock must spring out.

Step	Activity	Result
9	Press the inner lever handle or coupled outer lever handle.	The bolt and latch are pulled back; the bolt must not scrape on the locking plate.
10	Read fitting information, see eLOCK system documentation software.	

7 Problems and Solutions

Problem	Possible cause	Solution
Framed Door system does not respond.	Identifier is not a OPERTIS identifier.	Use OPERTIS identifier.
	Identifier is not programmed or does not have the necessary authorisations.	Program identifier, see eLOCK system documentation software.
	Identifier is defective.	Replace identifier.
	Fitting has wrong date or wrong time.	Reset time, see eLOCK system documentation software.
	Batteries are flat or defective	Change the batteries.
	Cables are crushed or jammed.	Replace the Framed Door system.
Lever handle is not horizontal.	Lever handle fitting has been installed slanted or under pressure.	Correctly install lever handle fitting and check for smooth and easy movement.
	Lever handles are too heavy.	Replace the existing lever handles with lighter ones or use additional retention spring.
Framed Door system is continuously coupled. The door can be opened without the authorisation of an identifier.	Switch mode of the fitting is activated, see eLOCK system documentation, "Fitting Modes" section.	Deactivate switch mode. - Reconfigure the fitting time profile. - Authorisation with Switch IT to deactivate switch mode.
	The outer lever handle was held too long after the opening time and mechanically prevented the uncoupling.	The framed door system automatically tries to uncouple the outer lever handle again at defined intervals.

Problem	Possible cause	Solution
Each identifier couples in the outer lever handle.	Fitting is not programmed ("construction site mode").	Program fitting, see eLOCK system documentation software.
Latch does not latch into position.	Latch recess in the locking plate does not match the latch position of the electro-mechanical lock.	Adjust the latch recess in the locking plate to the latch position of the electro-mechanical lock.
The lock does not lock.	The self-locking is defective.	Immediately replace lock.
The dead bolt is not drawn in by pressing the inner lever handle or the coupled outer lever handle.	The panic function is defective.	Immediately replace lock. **The door may no longer be closed as the panic function is no longer available!**

8 Product Specifications

Declaration of conformity

OPERTIS GmbH herewith declares that the Framed Door system fulfils the basic standards and other relevant specifications of the 1999/5/EG and 2002/95/EG directives and that they are CE compliant.

A copy of the statement of conformity can be ordered from the OPERTIS Support.

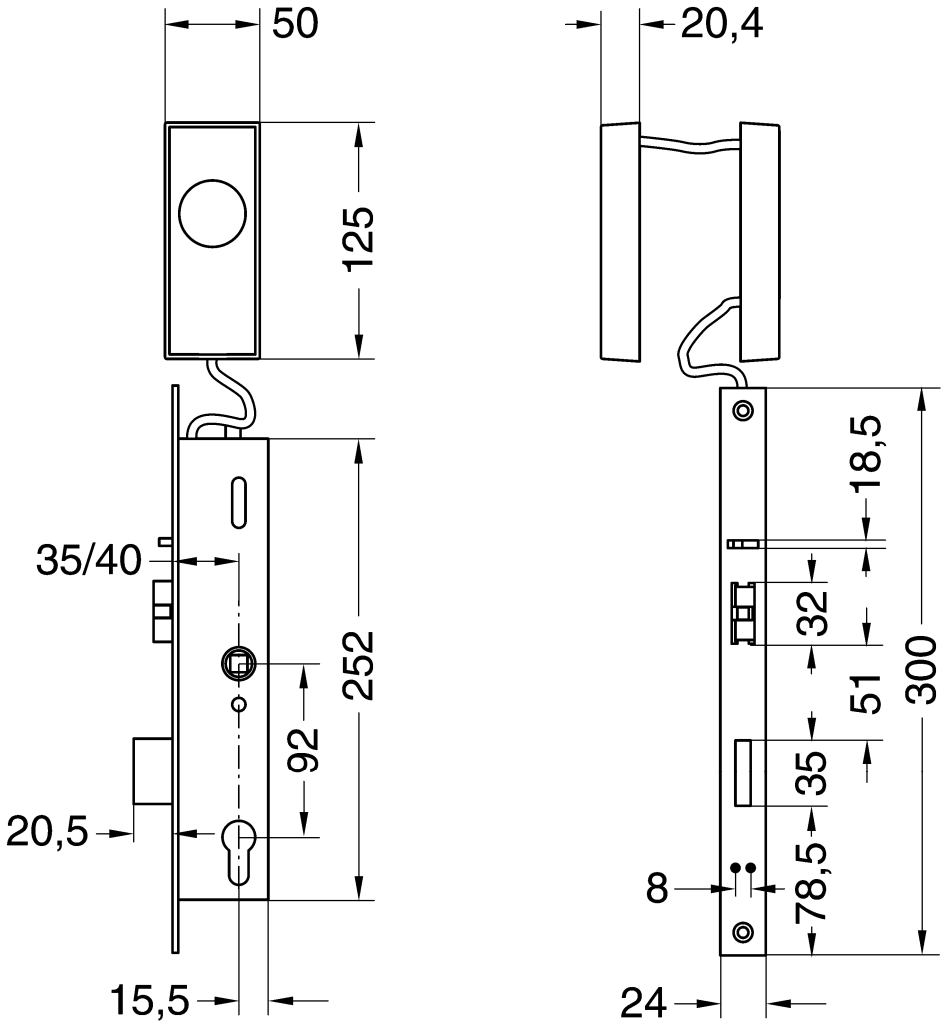
Installation in mortise locks prepared for profile cylinders in accordance with the following standards:

- DIN 18251-2: Locks - mortise locks - Part 1: Mortise locks for tubular frame doors
- DIN 18250: Locks - mortise locks for fire doors and smoke control doors limited: The framed door system has been tested and approved for use in fire doors and smoke control doors, but must also definitely be listed in the "monitoring design features" (list of approved products) of the relevant profile manufacturer.

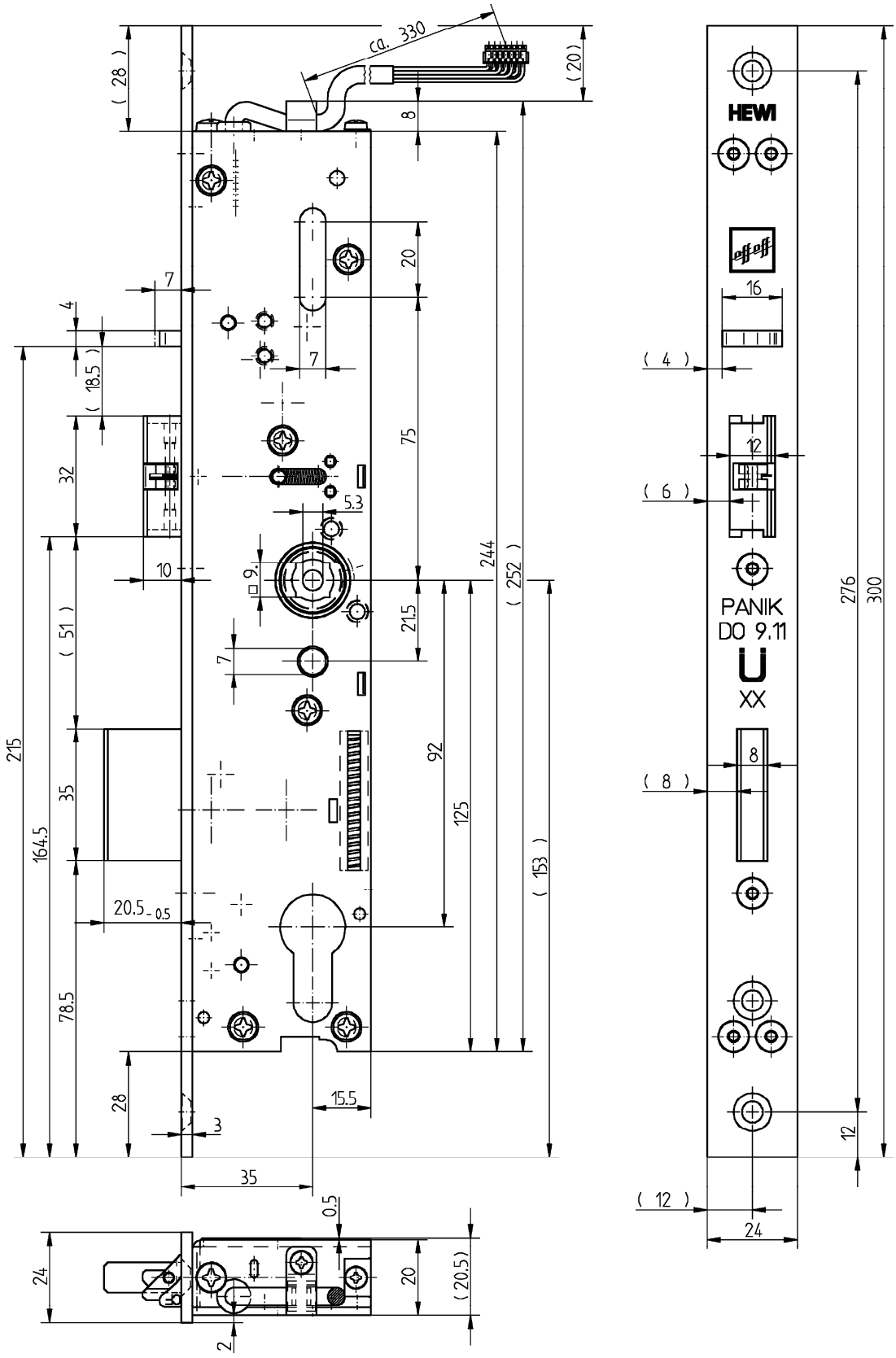
Dimensions

All dimensions are given in mm.

ES6610 and ES7610



Electro-mechanical lock



Technical data

Surface

Cover caps	Polyamide surface
Electro-mechanical lock	
○ Latch and bolt	Steel
○ Forend	Stainless steel

Power supply

Voltage supply	3-volt lithium battery, CR2 OPERTIS article no.: ES0891. **Approved battery types:** ○ Energizer 1CR2 ○ Panasonic CR-2L/1BP ○ VARTA CR2 Professional
Battery life:	depending on use conditions and fitting type:
○ Ready for use: (with ~ 10 closures per day)	○ ~ 3 to 4 years
○ Closures (total)	○ ~ 25.000 closures
○ Standby time	○ up to 6 years

Specific data

Operating temperature	Read-out unit: -20 °C to +55 °C Evaluator unit: 0 °C to +45 °C
Storage temperature	-20 □ to +75 □
Air humidity for operation and storage	max. 95 % non-condensing
Lock strength according to DIN 18251 Class 3	Increased break-in resistance and increased user frequency
Degree of protection according to EN 60529	IP43

Memory capacity in the fitting:	ES6xxx	ES7xxx	ES7xxx AddDelete
Identifiers	60,000	80,000	100
Protection zones (membership of a group of fittings	296	30	-
Events memory (authorisation attempts)	512	628	-

9 Disposal

Product

Disposal in accordance with WEEE Directive 2002/96/EC:

- Do not dispose of product by throwing it in the local household waste.
- Return product to OPERTIS or dispose of at a municipal collection point for hazardous electrical wastes.

Batteries

- Do not dispose of batteries in the local household waste but instead hand them in to public battery collection points.
- Do not throw batteries into a fire.
- Do not store used batteries together.
- Dispose of batteries only if they are discharged.

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